

Receiving Report

Date: 12/10/15

Batch No: M123213

Supplier: MESA

Dart P/O: 18067

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☐

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐ N/A ☐
 Shipment Complete: 14 Yes ☒ No ☐ N/A ☐
 QC6 Inspection 12/10/15 N/A ☐
 Work Order 14 N/A ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M174 PM-1.20		36	0	0	36	
M174 PM-1.275		36	0	0	36	

Initials of receiver (if shipment OK) Level 12

[Signature]

Production/Admin: 12/10/15
 Date
 Received/Costing
 Initial [Signature]

Location _____

Purchase Order Receipt Listing

Monday, October 15, 2012 11:55:16 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18067 Receipt Dates from 10/15/2012 to 10/15/2012 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name	VC-MET001 Metaux Castile										
PO18067	4		M303R0.750	f	10/15/2012	10/15/2012	208.6608	\$3.74	0.0000	0	\$781.00
CAD	No		303 Round Bar 0.750 f		200.0000	DES102		\$781.00	0.0000	0	
			123313								
	6		M304B0.250X4.000	f	10/15/2012	10/15/2012	25.3330	\$17.53	0.0000	0	\$444.21
	No		304 BAR .250 x 4.00 f		24.0000	DES102		\$444.21	0.0000	0	
			123313								
	8		M304R1.000	f	10/15/2012	10/15/2012	36.5000	\$7.85	0.0000	0	\$286.60
	No		304 round bar 1.00 f		36.0000	DES102		\$286.60	0.0000	0	
			123313								

Total Received Quantity:

270.4938

Total Qty to Inspect (PO U/M):

0.0000

Total Reject Quantity:

0.0000

Total Receipt Value:

\$1,511.80

Total Balance Due Quantity:

0.0000



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:1502292

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 12-OCT-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 1502292-2			

Shipment Details	
Final Destination Branch - MON	

Order No 2471590	Line No 1	Item No 4632.BO	Description 0.7500.RD.303 STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: ASTM A582			
Purchase Order No 18067	Part Number		Ordered Qty 300.00 LBS	Invoice Qty 208.6608 FT		
Details	Mill VALBRUNA CORPORATION	Heat Number 253415	Mech Id PCS	Width (IN) 1.0000	Length (IN) 147.2900	Shipped Qty(LBS) 313.0000
Delivery No. 118049332						

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.						
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.						
Reviewed by Authorized Castle Metals Representative:			Date:		Name:	

845

12/10/16

Signature

Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / besteller/Purchaser/Clien
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item/Usine productrice

Stato di fornitura: - Annealed Cold Drawn
Lieferzustand/Delivery state/Etat de livraison

Specifiche:
Anforderungen / Requirements / Exigences

VSI 0 303 HS A,CF
AMS 5640 U TYPE1 A
ASTM A320 2011 B8F (1)
MIL-S-862 B/1 303

(0) SEC.II PT.A 2010 EDITION ADD. 2011a
(1) Chemical analysis only.

Qualità: T-303
Werkstoff/Grade/Nuance

Marca: MV188ZHS
Markenbezeichnung Brand/Nuance
MAXIVAL

Tolleranza: Tol. ASTM A484
Tolleranz/Allowance/Tolerance

Punzonatura: 303
Kennzeichnung/Marking/Marque

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pieces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0090	Round	0,7500	147 / 147	253415		1.689	107505340

Test on delivery condition Prüfung auf lieferbarem produkt test a l'etat de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probestab Specimen/Eproovette Larg. diam. Spec. Bredia Diam. Dicke Width Diam. Thickness Larg. diam. épais mm	°F	Posiz. Saggio Probestage Location Emplacement	Snervamento Strackgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Strackgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Striction RA %	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max									140 255
A	12,5	68	L	80		103	38	53		242

TEST	min	max
A Grain size for ASTM E112		5

Mechanical properties according to ASTM A370.

1)L=longitudinale/längs, T=trasversale/quer, Q=Tangenziale/tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min 0,030 max 0,050	0,20 1,00	1,50 2,00	17,00 19,00	- 0,60	- 1,00	8,00 10,00	- 0,100	0,32 0,40	0,4000	-	-	-	-
253415	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %			
	0,038	0,42	1,77	17,00	0,60	0,62	8,00	0,115	0,031	0,32	0,0064			

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 0.5 h/water.
Micro and macro etch test: OK
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind it. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel à été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwachsungsprüfung: spectralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks:satisfactory
Contrôle visuel et dimensions: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1,s.,4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation

Vicenza,06/04/12
VCQ008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

PRODOTTORE QUALITÀ ASSICURATA
ISO 9001
QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

ACCIAIERIE VALBRUNA S.p.A.
CERTIFICATE OF CONFORMANCE
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

Order 2 401

Certificato nr: MEST184947/2012/
Prüfung/Test/Essai

Conferma ordine nr: E112002961
Werks/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Poinçon de l'assesseur

AMS 5640 U S30300 A
ASTM A314 2008 S30300
ASTM A582 2005 S30300 A

(0) Chemical analysis only.

Qualität: T-303
Werkstoff/Grade/Nuance

Marca: MV188ZHS
Markenbezeichnung Brand/Nuance
MAXIVAL

Tolleranza: Tol. ASTM A484
Tolleranz/Allowance/Tolerance

Punzonatura: 303
Kennzeichnung/Marking/Marque

TEST ALLO STATO DI FORNITURA
test a l'etat de fourniture Prueba sobre el material así como entregado

TEST

TEST

Mechanical properties according to ASTM A370.

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 0.5 h/water.
Micro and macro etch test: OK
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind it. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel à été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwachsungsprüfung: spectralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks:satisfactory
Contrôle visuel et dimensions: satisfaisant

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We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1,s.,4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation

Vicenza,06/04/12
VCQ008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 2

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client

VALBRUNA CANADA LTD

8724 HOLTGATE CRESCENT

L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**

Hersteller/Item/Usine productrice

Stato di fornitura: - Annealed Cold Drawn

Lieferzustand/Delivery state/Etat de livraison

Avviso di Spedizione: D-VI12010816

Lieferanzeige/Packing list/B.L.

Ordine nr: 203003611 STOCK

Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD

Erschmelzungsart/Melting process/Mode d'elaboration

Certificato nr: MEST184947/2012/

Prüfung/Test/Essai

Conferma ordine nr: EI12002961

Werks/Our Order/Ref nr.

Marchio di Fabbrica:

Zeichen des Lieferwerkes

Trade mark

Sigle de l'usine productrice



Punzone del Collaudatore:

Stempel des Werksachverständigen

Inspector's stamp/Pointon de l'assesseur

Inspector's stamp/Pointon de l'assesseur

of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction. Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/ or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 06/04/12

VCQ008

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 2 di 2



Castle Metals®

A. M. Castle & Co.

**PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

Page 1 of 1

Shipment No: 1502292

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 12-OCT-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOU LIN	BOL No 1502292-2			

Shipment Details		Final Destination Branch - MON	
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Order No 2465306	Line No 5	Item No 14828	Description 1.0000.RD.304/304L STAINLESS.CF.ANN.132.0000-156.0000 SPECIFICATIONS: ASTM A276				
Purchase Order No 18067	Part Number	Ordered Qty 36.00 FT	Invoice Qty 36.5000 FT				
Details				Mech Id	PCS	Width (IN)	Shipped Qty(LBS)
Delivery No. 118037358	Mill NORTH AMERICAN STAINLESS	Heat Number 7CW7		3		146.0000	97.4550

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

12/10/16



NORTH AMERICAN
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 599237 05 Mail To: Ship To: Date: 11/09/2010 Page: 1 of 1
A.M. CASTLE AND COMPANY A.M. CASTLE AND COMPANY Steel: 304/304L
3400 NORTH WOLF ROAD 3400 NORTH WOLF ROAD Finish: Cold Draw
FRANKLIN PARK IL 60131 FRANKLIN PARK IL 60131 Dia/Tbk: 1.0000 in
Customer: 0032 001 Leg Length: 144.00 in
NAS Order: LN 66588 1 Corrosion: ASTM A262 Prac A/E
Your Order: 74985 Item Code: 14828

PRODUCT DESCRIPTION:

ASTM A193/09-ASME SA193/09 CL 1 GR B8 (EXC PAR 7.2)
GRAIN SIZE= 4-6
Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/08
ASTM A276/08A, ASTM A479/08, ASTM A182/08A CHEM ONLY,
ASME SA479/07, ASME SA182/08A CHEM ONLY
AMS 5639H, AMS 5647H, AMS QQS-763B, QQS-763F

DAS
14
12/10/16

REMARKS:

COMPLIES W/REQUIREMENTS OF DEARS EU DIRECTIVE 2002.95.
EC. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BD35986	1888	BD35987	1868	BD35989	1832				

CHEMICAL ANALYSIS

CM(Country of Meit) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Heat	Supplier #	CM	C	CO	CR	CU	MN	MO	N	NI	P	S
7CW7		US	.025	.13	18.08	.41	1.52	.26	.077	8.56	.028	.0230
SI												
.29												
Castle Metals FP												
HEAT NUMBER 7CW7												
MECHANICAL ID												
ITEM CODE 14828												
LOT NUMBER												

MECHANICAL PROPERTIES

1 d	HB	.2YS	UTS	RA	Elong
o i	No.	KSI	KSI	%	% 4D
c f					
BD35986	RL	209.0	83.52	104.10	42.63
BD35987	RL	209.0	83.52	104.10	42.63
BD35989	RL	209.0	83.52	104.10	42.63
SUPPLIER NAS					
SPECIFICATION					
LCS					
COMMENT					
APPROVED					
RECEIPT DATE 11-15-10					
PO NUMBER 74985					

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

QC ENGINEER

ERIC HESS



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 1502292

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 12-OCT-2012	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier MANITOULIN	BOL No 1502292-2			

Shipment Details	
Final Destination Branch - MON	

Order No 2465306	Line No 3	Item No 26790	Description 0.2500.4.0000.FLAT.304.STAINLESS.HR.ANN.PICKLE.132.0000-156 .0000 SPECIFICATIONS: ASTM A276				
Purchase Order No 18067	Part Number		Ordered Qty 24.00 FT	Invoice Qty 25.3333 FT			
Details			Mech Id 2	PCS	Width (IN)	Length (IN) 152.0000	Shipped Qty(LBS) 86.1333
Delivery No. 118037358	Mill VALBRUNA CORPORATION	Heat Number 245154					

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.							
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.Mt. Castle & Co. within 60 days of the shipment. Material out to the correct size, or material cut by the customer cannot be returned for credit.							
Reviewed by Authorized Castle Metals Representative:				Date:		Name:	

DAS
12/10/16

Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besitter/Kunde/Klient
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
USA-FORT WAYNE, IN 46801-USA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Hersteller/Hersteller

Oggetto Prove: Descaled Annealed Hotrolled
Prüfungszustand: inspected/Prüfungszustand

Avviso di Spedizione: D-VI07029470
Lieferanten/Lieferanten/Lieferanten

Ordine nr: 21431 STOCK CHINO
Bestell-/Your order/Bestell-/Your order

Tipo di Elaborazione: E+AOD
Erweiterungs-/Welding process/Erweiterungs-/Welding process

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

Certificato nr: MEST547066/2007/
Prüfung/Test/Essai

Conferma ordine nr: EI07006993
Werkz/Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Sigle du fournisseur



Punzone del Collaudatore:
Stempel des Werkstoffverständigen
Inspector's stamp/Stampon de l'essayeur



Specifiche:

Anforderungen / Requirements / Exigences

VSI 0304/304L A
AMS-QQ-S-763 B 304/304L A
ASME SA276 2004 S30400/03 A 2
ASTM A182 2007 S30400/03 A 6
ASTM A276 2008 S30400/03 A
ASTM A370 2007A
MIL-S-882 B/1 304/304L
(0) SEC.II PT.A 2004 EDITION ADD.2008
(1) SEC.II PT.A 2004 EDITION ADD.2008
(3) SEC.II PT.A 2004 EDITION ADD.2008
(5) Chemical analysis only and mechanical properties.
(7) * ISO 15156-3

AMS 5838 H S30400 A
ASME SA182 2004 S30400/03 A 6
ASME SA320 2004 B8 CLASS1 3
ASTM A182 2007 B8 CLASS1
ASTM A314 97 S30400/03
ASTM A473 2001 S30400/03 8
NACE MR0175* 2003 S30400/03 A 7

AMS 5647 H S30403 A
ASME SA193 2004 B8 CLASS1 (1)
ASME SA479 2004 S30400/03 A (4)
ASTM A282 2002A PRACTICE E
ASTM A320 2007 B8 CLASS1
ASTM A479 2008A S30400/03 A

0Chemical analysis only and mechanical properties.
2SEC.II PT.A 2004 EDITION ADD.2008
4SEC.II PT.A 2004 EDITION ADD.2008
6Chemical analysis only.

Qualità: T-304L

Werkstoff/Grade/Numéro

Marca: AISI

Markenbezeichnung/Brand/Marken

Punzonatura: T-304L

Kenzeichnung/Marking/Markierung

Pos. nr. Pos. nr. Pos. nr.	Oggetto Gegenstand Produit description Descr. du produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Tolerance Tolérance	Lunghezza - Ft Länge Length Longueur	Colata Schmelze Fert Coulée	Pezzi Stückzahl Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lottr. Lot nr. Lot nr.
0050	Fiat	4,0000 x 0,2500	484-05A	12 / 13	245154		4,244	705401180

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind lt. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spektroskopisch durchgeführt
Antimixing testing performed: OK
Contrôle antimitélanges: OK

Controllo visivo e dimensionale: soddisfa le esigenze:
Besichtigung und Ausmessung ohne Beanstandung
Visual inspection and dimensional check/satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST	Prove/Examen Examination/Examen Examen/Examen Examen/Examen	°F	Posiz. Position Position Position	Snervamento Zugversuch Tensile Tensile	Snervamento Zugversuch Tensile Tensile	Resistenza Zugfestigkeit Tensile strength Tensile strength	Alungamento Dehnung Elongation Elongation	Strizione Bruchdehnung Reduction of area Reduction of area	Resilienza Kerbschlagenergie Impact Value Impact Value	Durezza Härte Hardness Hardness
				Rp 0,2% k.s.l.		Rm k.s.l.	E 4d %	RA %		HB
	Valori richiesti 1 Anforderungen/Required values Valeur dimensionnelle	min max		30	-	75 115	40	50	-	140 235
A	20X8,3	68 L		41		88	55	67		180

1) Lunghezza totale, Cortina, velle, T=Temperatura di essiccazione

Grain size for ASTM E112

5

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata - in Schmelze/Coulée	min - max 0,050	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	-	0,040	0,020 0,030	-	0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %					
245154	0,020	0,40	1,62	18,13	0,46	0,51	8,13	0,090	0,028	0,030	0,087					

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1960°F for 1 h/H₂O.

Micro and macro etch test: OK

Intergranular corrosion test per ASTM A262 pract. E: ok

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Procedure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

CASTLE METALS STO

HEAT NUMBER 245154
MECHANICAL ID 26790
ITEM CODE 26790
LOT NUMBER 37735
PURCHASE ORDER Valbruna
SUPPLIER Valbruna
SPECIFICATION/LCS 310 505323
COMMENT 310 505323
APPROVED/DATE 310 505323

Vicenza, 16/10/07 VCO095 (Mod. MCRP)	Il collaudatore di stabilimento / der Werkstoffverständiger / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 1
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18067

Purchase Order Date 10/03/12

PO Print Date 10/04/12

Page Number 1 of 4

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

123294

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
10/04/12

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M174B1.250X02.000 030	17-4 SS Bar 1.250 x 2.00	10/15/12 Yes	24.00 f	Yours ppd	\$46.3500	\$1,112.40
		Special Inst: MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENDILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI					
2	M174PH-H900R1.000	17-4SS H900 ROUND BAR 1.00	10/15/12 Yes	36.00 f	Yours ppd	\$10.0700	\$362.52

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required **YES** NO

Change Nbr:

2

Change Date:

10/04/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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PURCHASE ORDER

Purchase Order ID **PO18067**

Purchase Order Date 10/03/12

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CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst: MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR
INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

3	M174PH-H900R1.375	17-4 SS H900 ROUND BAR 1.375	10/15/12	36.00	Yours ppd	\$16.4600	\$592.56
			Yes	f			

Special Inst: MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR
INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

4	M303R0.750	303 Round Bar 0.750	10/15/12	200.00	Yours ppd	\$3.6800	\$736.00
			Yes	f			

Special Inst: MATERIAL: AISI 303 SS ROUND BAR AS
PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 2

Change Date: 10/04/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18067**

Purchase Order Date 10/03/12

PO Print Date 10/04/12

Page Number 3 of 4

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

QTY	Part Number	Description	Unit	Price	Amount	Ext. Price
5	M303R1.000	303 Round Bar 1.00	10/15/12	24.00	Yours ppd	\$8.5700
			Yes			\$205.68

028

Special Inst: MATERIAL: AISI 303 SS ROUND BAR AS
PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

24.333
10/15/12

6	M304B0.250X4.000	304 BAR 250 x 4.00	10/15/12	24.00	Yours ppd	\$17.2400
			Yes			\$413.76

050

Special Inst: MATERIAL: AISI 304/316 SS BAR OR
AISI 304/316 SS PLATE
AS PER ASTM A276 OR ASTM A240
NOTE: AISI 303 NOT ACCEPTABLE

24.333

7	M304R0.375	304 ROUND BAR 0.375	10/15/12	108.00	Yours ppd	\$1.3900
			Yes			\$150.12

029

Special Inst: MATERIAL: MATERIAL: 304/316 SS
ROUND BAR
AS PER ASTM A276
NOTE: AISI 303 NOT ACCEPTABLE

108.00
10/15/12

8	M304R1.000	304 round bar 1.00	10/15/12	36.00	Yours ppd	\$7.7200
			Yes			\$277.92

029

Special Inst: MATERIAL: MATERIAL: 304/316 SS
ROUND BAR
AS PER ASTM A276
NOTE: AISI 303 NOT ACCEPTABLE

36.500

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required YES NO

Change Nbr: 2

Change Date: 10/04/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
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PURCHASE ORDER

Purchase Order ID **PO18067**

Purchase Order Date 10/03/12

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Page Number 4 of 4

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VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

9	M6061T6R0.563	6061-T6 ROUND BAR .563	10/15/12	✓ 96.00	Yours ppd	\$2.6300	\$252.48
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013

Yes

f

Special Inst:

6061-T6 (OR 6061-T651/ T6510/ T6511/
T62) ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR
(AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8)OR
AMS 4160)
OR ASTM B211 OR ASTM B221

PO Total:

\$4,103.44

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Change Nbr: 2

Change Date: 10/04/12

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO